SYSTEM AND METHOD FOR SUPPORTING TRANSACTION AND PARALLEL SERVICES ACROSS MULTIPLE DOMAINS BASED ON SERVICE LEVEL AGREEMENTS

ABSTRACT OF THE INVENTION

An on-demand manager provides an improved distributed data processing system for facilitating dynamic allocation of computing resources among multiple domains based on a current workload and service level agreements. Based on a service level agreement, the on-demand manager monitors and predicts the load on the system. If the current or predicted load cannot be handled with the current system configuration, the on-demand manager determines additional resources needed to handle the workload. If the service level agreement violations cannot be handled by reconfiguring resources at a domain, the on-demand manager sends a resource request to other domains. These other domains analyze their own commitments and may accept the resource request, reject the request, or counter-propose with an offer of resources and a corresponding service level agreement. Once the requesting domain has acquired resources, workload load balancers are reconfigured to allocate some of the workload from the requesting site to the acquired remote resources.